United States of America FEDERAL COMMUNICATIONS COMMISSION **EXPERIMENTAL** SPECIAL TEMPORARY AUTHORIZATION

	EXPERIMENTAL		WG9XHP
	(Nature of Service)		(Call Sign)
	XT MO		1485-EX-ST-2017
	(Class of Station)		(File Number)
VAME		Space Exploration Technologies	

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

Launch vehicle communications from Cape Canaveral.

Station Locations

MOBILE: SLC 40, CCAFS; Launch vehicle 1st stage

MOBILE: Launch vehicle 2nd stage, orbital

Frequency Information

MOBILE: SLC 40, CCAFS; Launch vehicle 1st stage

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2211 MHz	МО	3M22F1D	34.9 W (ERP)	0.000225 %
2255.5 MHz	МО	3M22F1D	31.8 W (ERP)	0.000225 %



Frequency Information

MOBILE: Launch vehicle 2nd stage, orbital

Frequency 2232.5 MHz	Station Class MO	Emission Designator 3M22F1D	Authorized Power 9.4 W (ERP)	Frequency Tolerance (+/-)
2272.5 MHz	МО	3M22F1D	9.6 W (ERP)	

Special Conditions:

- (1) All operations shall be limited to telemetry, tracking and launch vehicle communications for SpaceX F9 Mission 1381 from Cape Canaveral AFS, FL. This STA is limited to the single SpaceX F9 Mission 1381 from Cape Canaveral AFS, FL. This STA will expire as soon as the launch has been completed or 28 May 2018, whichever occurs first.
- (2) SpaceX shall be aware that future non-federal launches will be considered on a case-by-case basis, especially for requests in the band 2200-2290 MHz, and SpaceX shall have no expectations that future launches will be approved.
- (3) As soon as possible, but no later than 60 business days prior to the planned launch, SpaceX is required to provide, as a minimum, launch date/time/window and planned first- and second-stage trajectory, transmission frequencies with associated duration/cut-off time to Jimmy Nguyen (jimmy.nguyen@us.af.mil, AFSMO), Felipe Arroyo (felipe.arroyo-1@nasa.gov, NASA/WFF), Scott Galbraith (vincent.s.galbraith@nasa.gov, NASA/GSFC), Stephen Horan (stephen.j.horan@nasa.gov, NASA/LaRC), Kevin Vipavetz (keven.g.vipavetz@nasa.gov, NASA/LaRC), NOAA Satellite Operations Control Center (philip.l.whaley@noaa.gov), Richard Ontiveros, (richard.ontiveros1@navy.mil, NMSC), and Cathy Sham (catherine.c.sham@nasa.gov). In the event of last-minute changes, 48-hour notice is required.
- (4) Sixty (60) days prior to transmitting at Complex 39a, Kennedy Space Center, Florida, SpaceX shall coordinate and schedule their operations with Range Scheduling (1ropschd@us.af.mil, 321.853.5941), Jamie Bjornbak (James.P.Bjornbak@nasa.gov, 321.867.6905, NASA KSC SMO), and Scott Galbraith (vincent.s.galbraith@nasa.gov, 301-286-5089, NASA GSFC SMO).
- (5) SpaceX shall keep a log of all transmissions in the band 2200-2290 MHz and provide to the NTIA after the mission. This log shall include, as a minimum, at least date, time, frequency, e.i.r.p density, pointing direction of all antennas. The log shall be provided to the following NTIA personnel no later than three (3) weeks after completing the mission: bmitchell@ntia.doc.gov and edrocella@ntia.doc.gov.

Special Conditions:

- (6) Due to potential harmful interference to naval activities, SpaceX RF operations plan shall be submitted, at least 60 days prior to planned launch date, to the Naval Surface Warfare Center, Dahlgren Division (NSWCDD), Mr. James Moneyhon (540)653-3477, or james.moneyhon@navy.mil, for assessment. A blackout zone of 1500 nautical mile radius, centered at 22N160W, shall be assumed, unless otherwise coordinated with, and agreed to, by the NSWCDD. SpaceX, Inc. must also comply with all restrictions levied by the Naval Surface Warfare Center, Dahlgren Division (NSWCDD).
- (7) All transmissions in the band 2200-2290 MHz shall comply with national and international power flux density limits, unless otherwise coordinated and agreed to. PFD analysis and exceedances shall be provided in the FCC application and provided to the NTIA for US Government review.
- (8) The STOP BUZZER POC information, for launch operations shall be provided to NTIA (bmitchell@ntia.doc.gov). This phone shall be manned 24/7.
- (9) All SpaceX operations granted on an experimental basis shall be on an unprotected, non-interference basis to authorized federal stations.

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